WHAT IS CLAIMED IS:

1	1. A method of positioning a main stent at a vessel bifurcation such					
2	that a side opening in the main stent is positioned at the ostium of a branch vessel,					
3	comprising:					
4	positioning a main guidewire in the main vessel such that a distal end of					
5	the main guidewire extends past the bifurcation;					
6	advancing a stent delivery system to a position proximate the bifurcation,					
7	the stent delivery system comprising a catheter with a flexible side sheath attached					
8	thereto, wherein the catheter is received over the main guidewire, and wherein the main					
9	stent is positioned over the catheter with the flexible side sheath positioned to pass					
10	through the interior of the main stent and out of the side opening in the main stent;					
11	advancing a branch guidewire through the flexible side sheath attached to					
12	the catheter and into the branch vessel; and subsequently,					
13	advancing the catheter over the main guidewire while advancing the					
14	flexible side sheath over the branch guidewire while viewing relative movement of a					
15	marker positioned on the flexible side sheath with respect to at least one marker					
16	positioned on the catheter, wherein the relative movement indicates that a portion of the					
17	flexible side sheath adjacent the side opening in the main stent is advancing into the					
18	ostium of the branch vessel, thereby indicating the position of the side opening of the					
19	main stent with respect to the ostium of the branch vessel.					
1	2. The method of claim 1, wherein viewing relative movement of a					
2	· · · · · · · · · · · · · · · · · · ·					
3	marker positioned on the flexible side sheath with respect to at least one marker positioned on the catheter, comprises:					
4	viewing an increasing separation distance between the marker positioned					
5	on the flexible side sheath with respect to at least one marker positioned on the catheter as					
6	the catheter is advanced over the first guidewire while the flexible side sheath is					
7	simultaneously advanced over the second guidewire.					
,	simultaneously advanced over the second guidewire.					
1	3. The method of claim 1, wherein,					
2	viewing the at least one marker positioned on the catheter comprises					
3	viewing markers positioned adjacent the distal and proximal ends of the main stent.					
1	4. The method of claim 1, further comprising:					
2						
٤	at least partially deploying the main stent within the main vessel.					

ı	5. The method of claim 4, further comprising:				
2	advancing a distal end of a second catheter over the branch guidewire and				
3	into the branch vessel.				
1	6. The method of claim 5, further comprising:				
2	deploying a branch stent with in the branch vessel, wherein the branch				
3	stent is positioned on the distal end of the second catheter.				
1	7. A method of positioning a main stent at a vessel bifurcation such				
2	that a side opening in the main stent is positioned at the ostium of a branch vessel,				
3	comprising:				
4	positioning a main guidewire in the main vessel such that a distal end of				
5	the main guidewire extends past the bifurcation;				
6	advancing a stent delivery system to a position proximate the bifurcation,				
7	the stent delivery system comprising a catheter with a flexible side sheath attached				
8	thereto, wherein the catheter is received over the main guidewire, and wherein the main				
9	stent is positioned over the catheter with the flexible side sheath positioned to pass				
10	through the interior of the main stent and out of the side opening in the main stent;				
11	advancing a branch guidewire through the flexible side sheath and into the				
12	branch vessel; and subsequently,				
13	advancing the catheter over the main guidewire while advancing the				
14	flexible side sheath over the branch guidewire such that the side opening in the main stent				
15	is positioned at the ostium of a branch vessel.				
1					
1	8. The method of claim 7, wherein advancing the flexible side sheath				
2	over the branch guidewire such that the side opening in the main stent is positioned at the				
3	ostium of a branch vessel, comprises:				
4	advancing the flexible side sheath over the branch guidewire such that a				
5	distal end of the flexible side sheath is advanced into the ostium of the branch vessel.				
1	9. The method of claim 8, further comprising:				
2	viewing relative movement of a marker positioned on the flexible side				
3	sheath with respect to at least one marker positioned on the catheter, wherein the relative				
4	movement indicates that a portion of the flexible side sheath adjacent the side opening in				
5	the main stent is advancing into the ostium of the branch vessel, thereby indicating the				

•	position of the side opening of the main stell with respect to the ostituit of the branch				
7	vessel.				
1	10. A stent delivery system for positioning a main stent at a vessel				
2	bifurcation such that a side opening in the main stent is positioned at the ostium of a				
3	branch vessel, comprising:				
4	a first guidewire;				
5	a catheter receivable over the first guidewire, the catheter having at leas				
6	one marker positioned thereon;				
7	a flexible side sheath attached to the catheter, the flexible side sheath				
8	having at least one marker positioned thereon; and				
9	a second guidewire receivable through the flexible side sheath.				
1	11. The stent delivery system of claim 10, further comprising:				
2	a main stent positioned on the catheter.				
1	12. The stent delivery system of claim 10, wherein,				
2	the at least one marker positioned on the delivery system comprises a				
3	distal and a proximal marker.				
1	13. The stent delivery system of claim 12, wherein,				
2	the at least one marker positioned on the delivery system comprises a				
3	medial marker positioned between the distal and proximal markers.				
1	14. The stent delivery system of claim 10, wherein,				
2	the at least one marker positioned on the flexible side sheath comprises				
3	marker positioned adjacent one of the at least one marker on the delivery system.				
1	15. The stent delivery system of claim 10, further comprising:				
2	a second catheter receivable over the second guidewire.				
1	16. The stent delivery system of claim 10, further comprising:				
2	a balloon positioned at a distal end of the catheter.				
1	17. The stent delivery system of claim 15, further comprising:				
2	a balloon positioned at a distal end of the second catheter.				

1		10.	The stent delivery system of claim 10, wherein,			
2		a marker positioned on the catheter is radiopaque.				
1		19.	The stent delivery system of claim 10, wherein, the marker is made			
2	of made of go	nade of gold.				
1		20.	The stent delivery system of claim 10, wherein, a marker			
2	positioned on the flexible side sheath is radiopaque.					
1		21.	The stent delivery system of claim 19, wherein, the marker is made			
2	of made of tungsten.					
1		22.	A stent delivery system for positioning a main stent at a vessel			
2	bifurcation su	such that a side opening in the main stent is positioned at the ostium of a				
3	branch vessel	anch vessel, comprising:				
4		a cathe	eter having at least one marker positioned thereon; and			
5		a flexi	ble side sheath attached to the catheter, the flexible side sheath			
6	having at least one marker positioned thereon.					
1		23.	A kit comprising:			
2		an app	paratus as in claim 10; and			
3		instruc	ctions for use setting forth a method as in claim 1.			